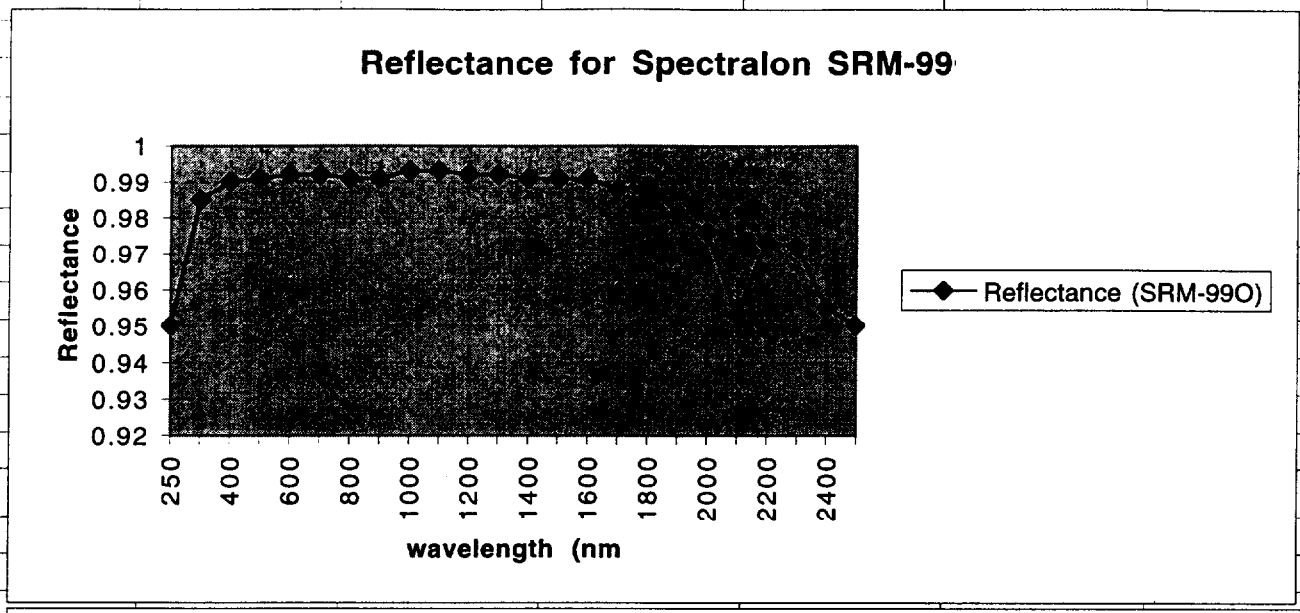
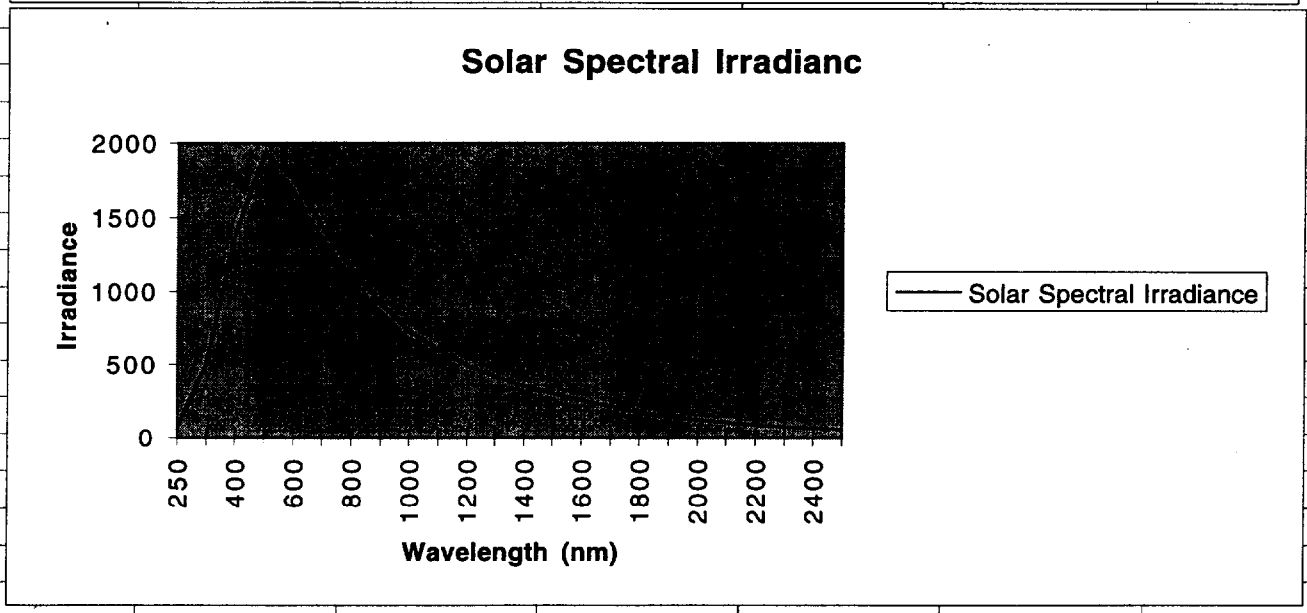
DO WE HAVE A PROBLEM WITH 2.5 MICRON LEAK INTO SWIR WHEN LOOKING AT SD ON-ORBIT?

SEEMS NOT.





Band	Wavelength	BRDF Ratios	Esun Ratios	RSR Leak Ratio	SD "blocking"
5	1.24	0.957	0.108	0.02	2.07E-03
26	1.38	0.958	0.139	0.001	1.33E-04
6	1.64	0.960	0.212	0.001	2.03E-04
7	2.13	0.990	0.540	0.0001	5.34E-05

Ratios are in Band/2.5 um leak

BRDF Rations based on LabSphere typical Optical Grade Spectralon from catalog

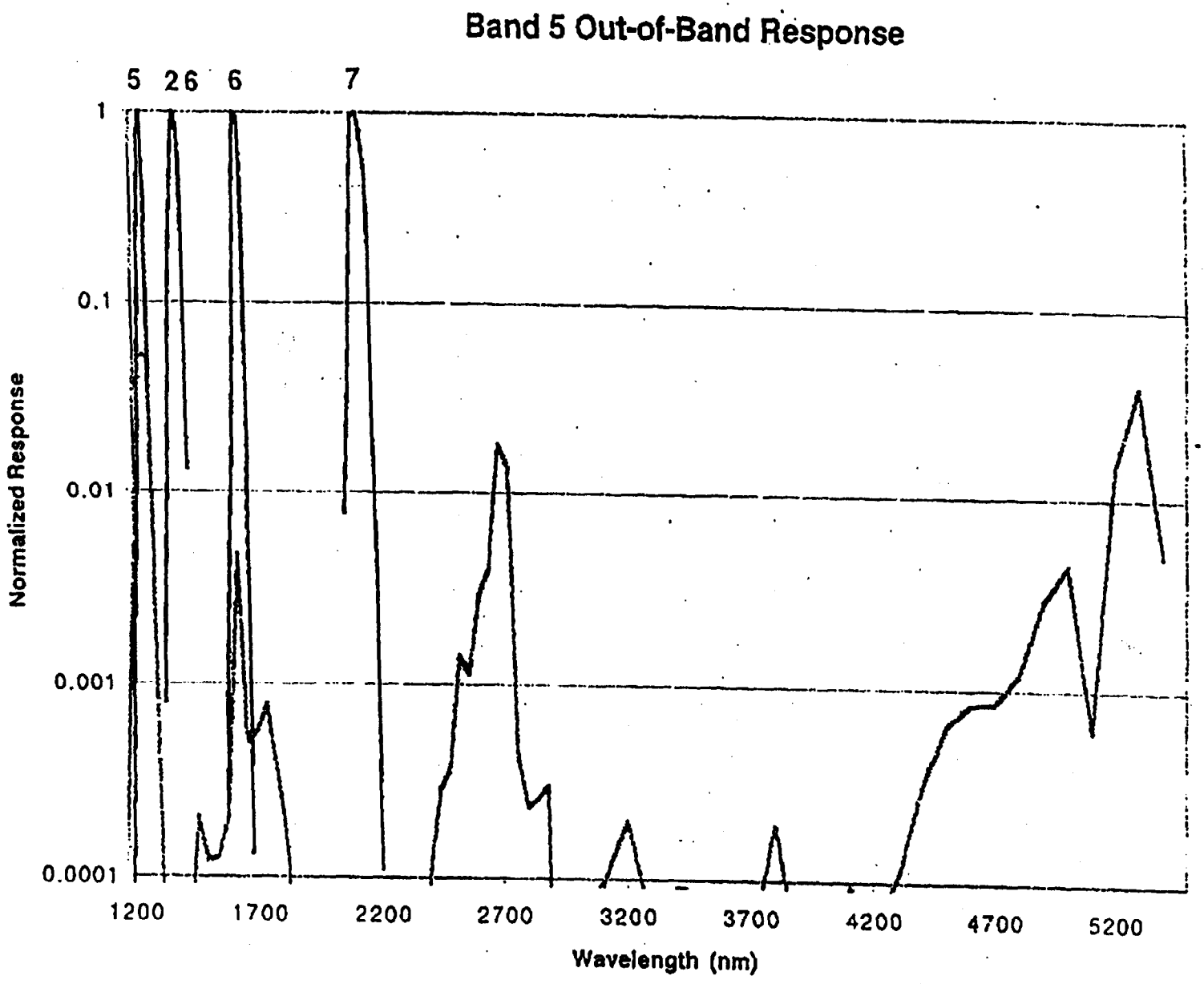
Esun ratios from White, "Solar Output and Its Variations"

RSR Leak Ratios from SBRS charts for OOB-D data sets (estimated values)

SD blocking is portion of total signal from SD due to 2.5 micron light leak

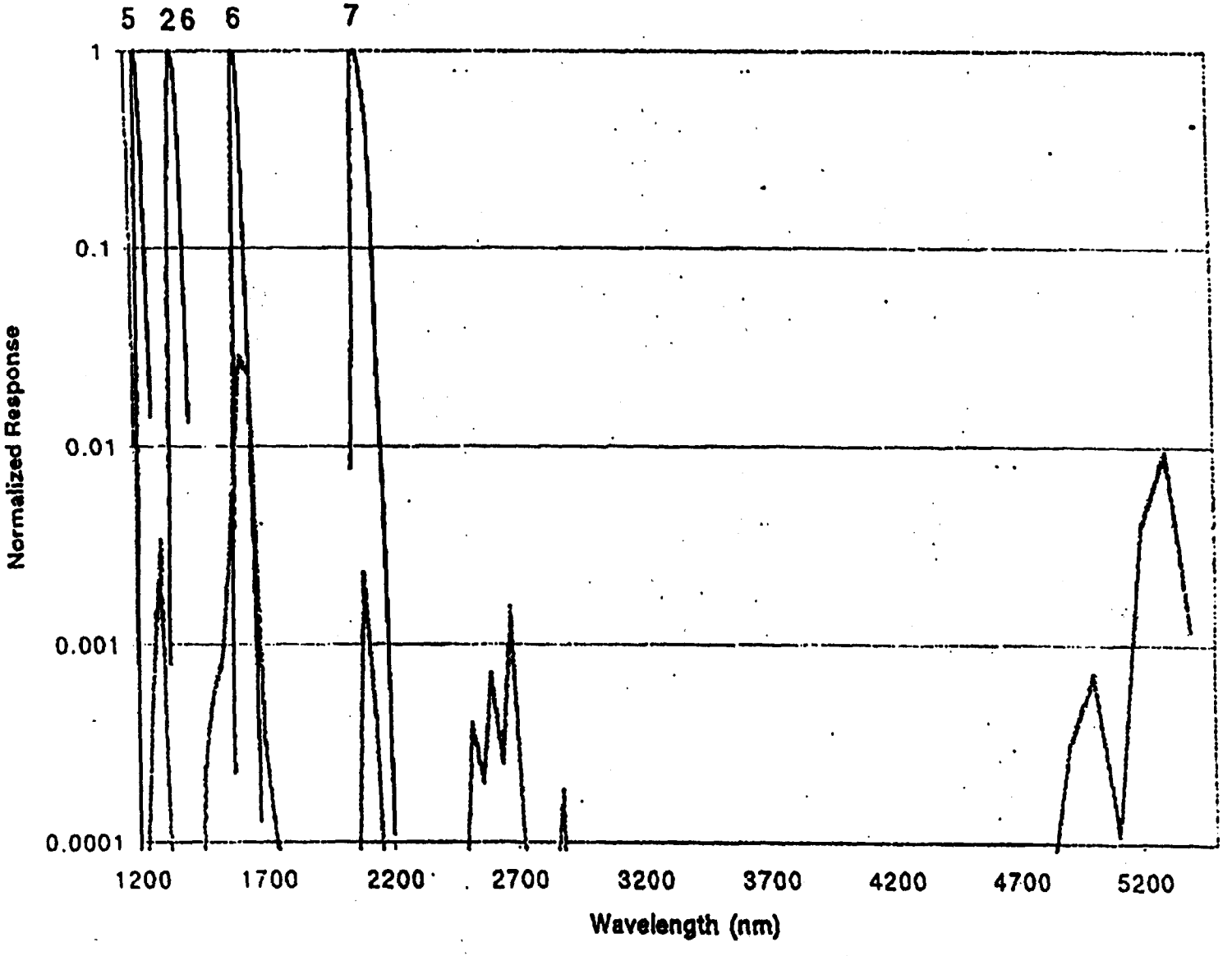
Day scenes with very high BRF at 2.5 um and very low BRF at B 5, 26, 6 or 7 might have some 2.5 um contamination

Esun(5.5 um) is 0.26/4.8 lower than Esun (2.5 um)

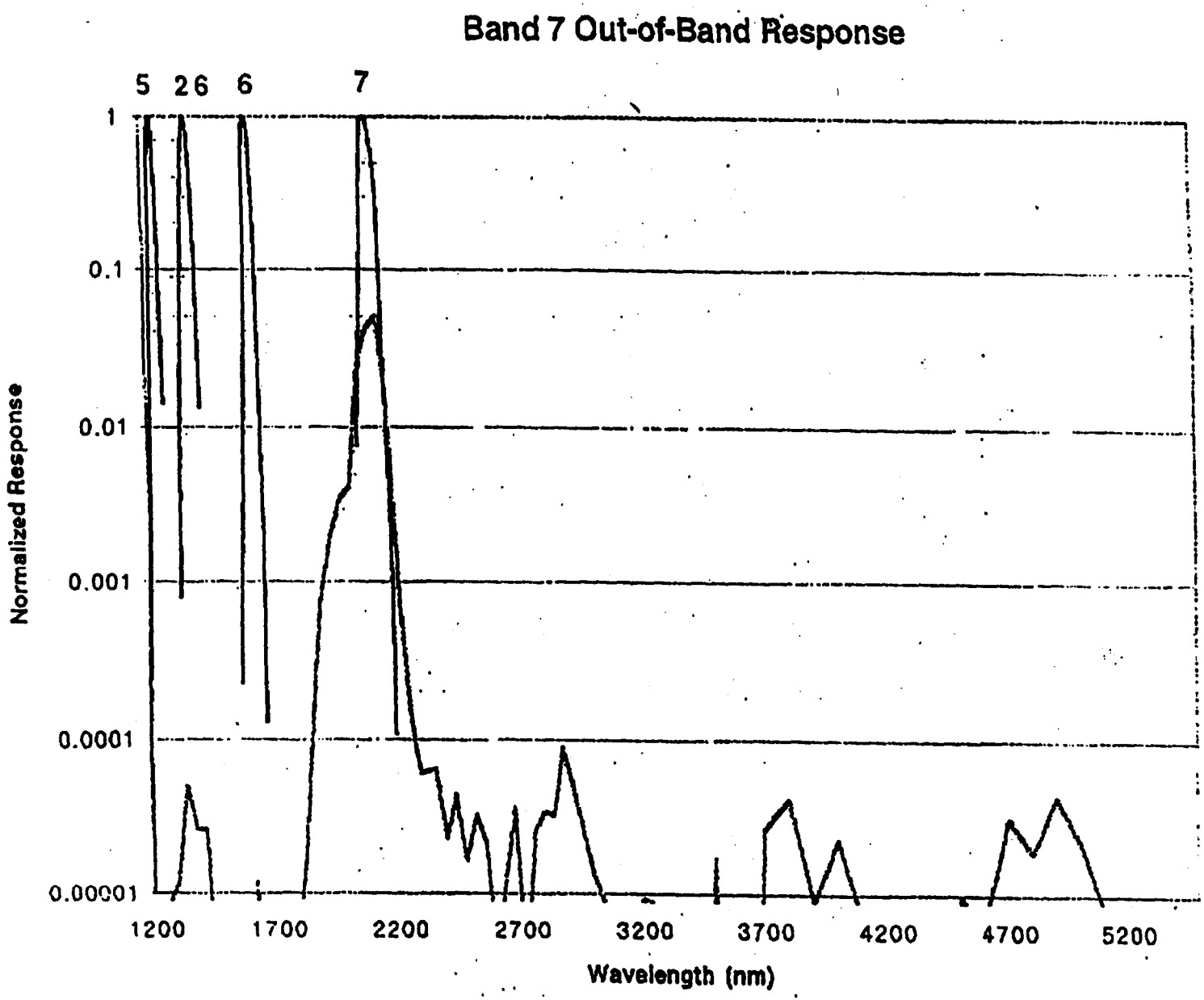


*Plot has in-band response for Bands 5, 6, 7, and 26 superimposed on the out-of-band response for Band 5

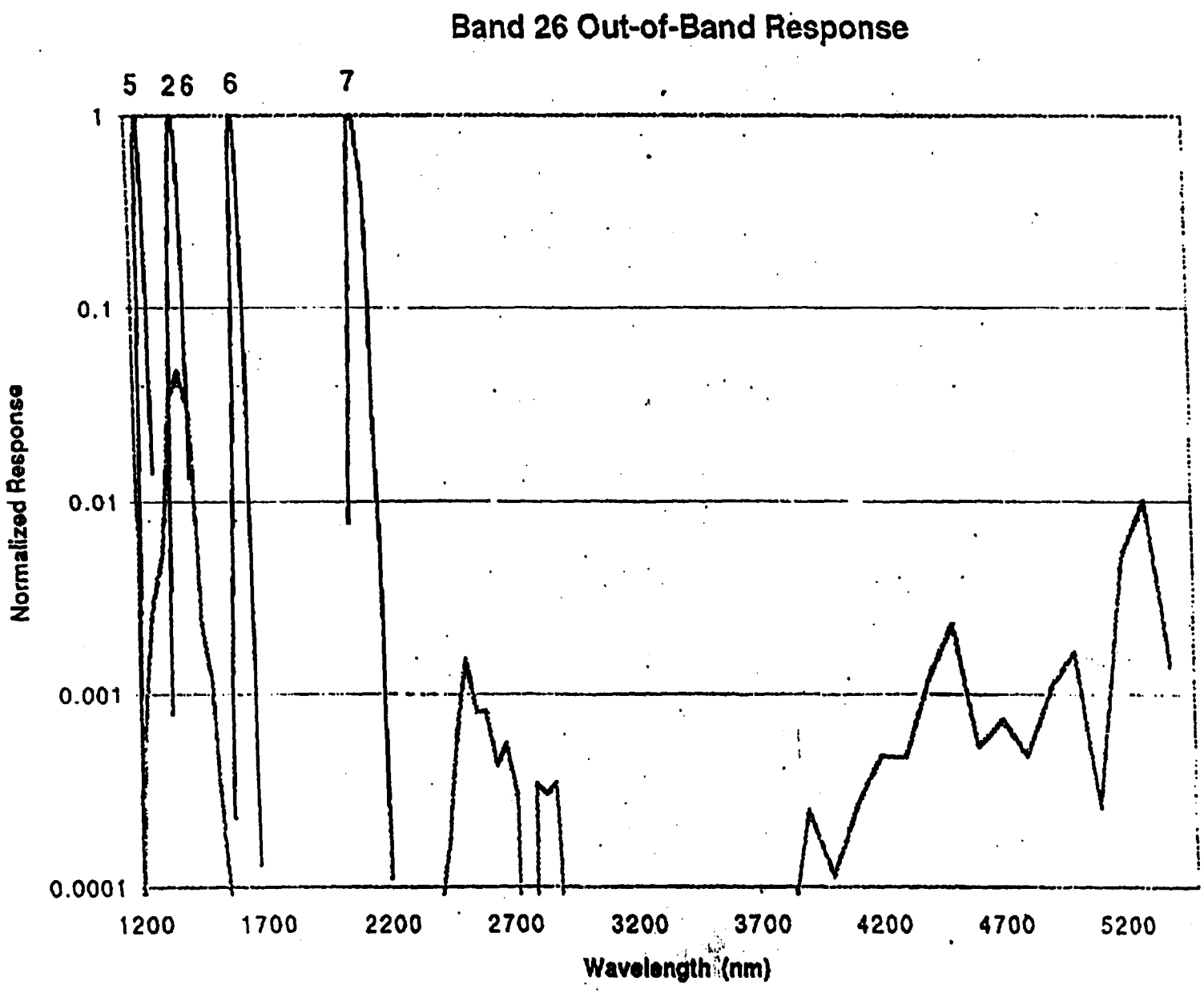
Band 6 Out-of-Band Response



*Plot has in-band response for Bands 5, 6, 7, and 26 superimposed on the out-of-band response for Band 6



*Plot has in-band response for Bands 5, 6, 7, and 26 superimposed on the out-of-band response for Band 7



*Plot has in-band response for Bands 5, 6, 7, and 26 superimposed on the out-of-band response for Band 26